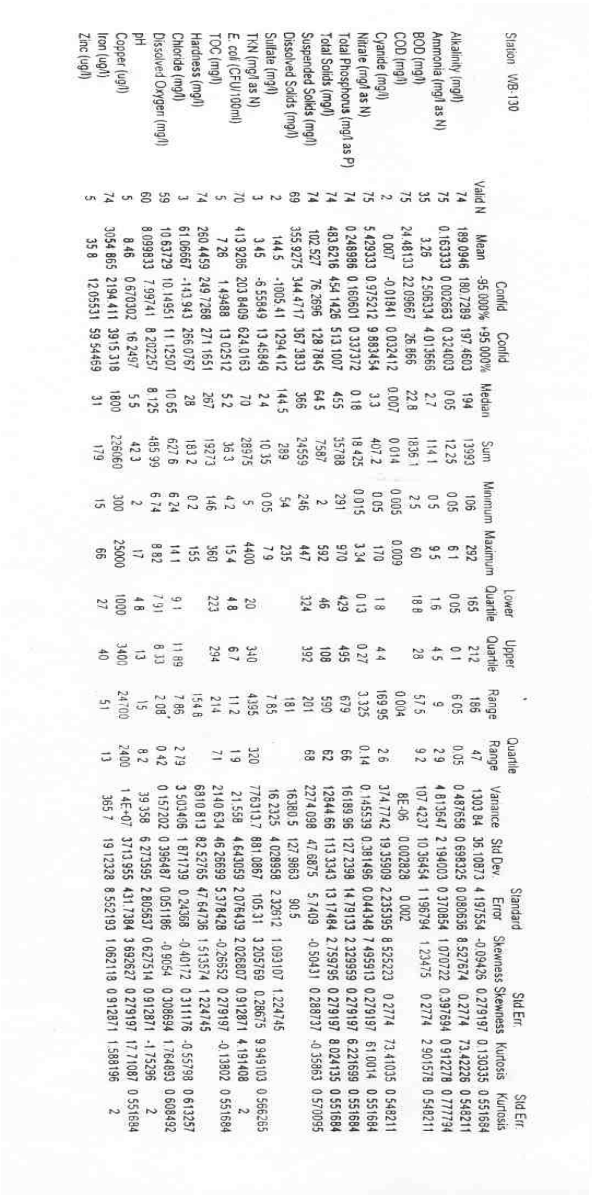
APPENDIX A

BENCHMARK CHARACTERISTIC ANALYSIS OF DATA FROM FIXED STATIONS IN THE MIDDLE WABASH-BUSSERON WATERSHED



Station WB-130

	Valid N	Mean	Confid -95.000%	Confid +95.000%	Median	Sum	Minimum	Maximum	Lower Quartile	Upper Quartile	Range	Quartile Range	Variance	Std.Dev.	Standard Error	Skewness	Std Err Skewness	Kurtosis	Std Err Kurtosis
Alkalinity (mg/l)	74	189.0946	180.7289	197.4603	194	13993	106	292	165	212	47	47	1303.84	36.1087	4.197554	-0.09426	0.279197	0.130335	0.551684
Ammonia (mg/l as N)	75	0.163333	0.002653	0.324013	0.05	12.25	0.05	6.1	0.05	0.1	0.05	0.05	0.487658	0.698325	0.080836	8.527674	0.2774	73.42226	0.548211
BOD (mg/l)	35	3.26	2.506314	4.013686	2.7	114.1	0.5	9.5	1.6	4.5	2.9	2.9	4.813647	2.194003	0.370854	1.070722	0.397694	0.912278	0.777794
COD (mg/l)	75	24.48133	22.09667	26.866	22.8	1836.1	2.5	60	18.8	28	57.5	9.2	107.4237	10.36454	1.196794	1.23475	0.2774	2.901578	0.548211
Cyanide (mg/l)	2	0.007	-0.01841	0.032412	0.007	0.014	0.005	0.009			0.004		8E-06	0.002828	0.002				
Nitrate (mg/l as N)	75	5.429333	0.975212	9.883454	3.3	407.2	0.05	170	1.8	4.4	169.95	2.6	374.7742	19.35909	2.235395	8.525223	0.2774	73.41035	0.548211
Total Phosphorus (mg/l as P)	74	0.248986	0.160601	0.337372	0.18	18.425	0.015	3.34	0.13	0.27	3.325	0.14	0.145539	0.381496	0.044348	7.495913	0.279197	61.0014	0.551684
Total Solids (mg/l)	74	483.6216	454.1426	513.1007	455	35788	291	970	429	495	679	66	16189.96	127.2398	14.79133	2.329859	0.279197	6.226589	0.551684
Suspended Solids (mg/l)	74	102.527	76.2696	128.7845	64.5	7587	2	592	46	108	590	62	12844.66	113.3343	13.17484	2.759795	0.279197	8.024135	0.551684
Dissolved Solids (mg/l)	69	355.9275	344.4717	367.3833	366	24559	246	447	324	392	201	68	2274.098	47.6875	5.7409	-0.50431	0.288737	-0.35863	0.570095
Sulfate (mg/l)	2	144.5	-1005.41	1294.412	144.5	289	54	235			181		16380.5	127.9863	90.5				
TKN (mg/l as N)	3	3.45	-6.55849	13.45849	2.4	10.35	0.05	7.9			7.85		16.2325	4.028958	2.32612	1.093107	1.224745		
E. coli (CFU/100ml)	70	413.9286	203.8409	624.0163	70	28975	5	4400	20	340	4395	320	776313.7	881.0867	105.31	3.205769	0.28675	9.943103	0.566265
TOC (mg/l)	5	7.26	1.49488	13.02512	5.2	36.3	4.2	15.4	4.8	6.7	11.2	1.9	21.558	4.643059	2.076439	2.026807	0.912871	4.191408	2
Hardness (mg/l)	74	260.4459	249.7268	271.1651	267	19273	146	360	223	294	214	71	2140.634	46.26599	5.378428	-0.26552	0.279197	-0.13902	0.551684
Chloride (mg/l)	3	61.06667	-143.943	266.0767	28	183.2	0.2	155		9.1	154.8	2.79	6810.813	82.52765	47.64736	1.513574	1.224745		
Dissolved Oxygen (mg/l)	59	10.63729	10.14951	11.12507	10.65	627.6	6.24	14.1	9.1	11.89	7.86	2.79	3.503406	1.871739	0.24368	-0.40172	0.311176	-0.55798	0.613257
pH	60	8.099833	7.99741	8.202257	8.125	485.99	6.74	9.82	7.91	8.33	2.08	0.42	0.157202	0.396487	0.051186	-0.9054	0.308694	1.764893	0.608492
Copper (ug/l)	5	8.46	0.670302	16.2497	5.5	42.3	2	17	4.8	13	15	8.2	39.358	6.273596	2.805537	0.627514	0.912871	-1.75236	2
Iron (ug/l)	74	3054.865	2194.411	3915.318	1800	226060	300	25000	1000	3400	24700	2400	1.4E+07	3715.955	431.7384	3.692627	0.279197	17.71087	0.551684
Zinc (ug/l)	5	35.8	12.05531	59.54469	31	179	15	66	27	40	51	13	365.7	19.12328	8.552193	1.062118	0.912871	1.588196	2